(3.158; M3-1(71)-7

## **CURRENT INDUSTRIAL REPORTS**

# Manufacturers' Shipments, Inventories, and Orders

**July 1971** 



SERIES: M3-1(71)-7

U.S. DEPARTMENT OF COMMERCE / Bureau of the Census

SUMMARY

FOR RELEASE: August 31, 1971

A UNITED STATES DEPARTMENT OF COMMERCE

**PUBLICATION** 

New orders for manufactured products in July at \$58.0 billion in reased \$1.0 billion or 1.7 percent from \$57.0 billion in June after seasonal adjustment. Shipments decreased \$800 billion or 1.4 percent to \$58.2 billion from \$59.0 billion in June. Unfilled orders decreased \$200 million to \$77/6 billion at the end of July. Manufacturers' inventories decreased \$200 million to \$100.4 billion at the end of July. The inventories of shipments ratio increased from 1.70 to 1.72

For the 3 months ending in July, the average change in new orders represents a 0.8 percent increase compared with a 0.4 percent decrease for the 3 months ending in April and a 3.3 percent increase for the 3 months ending in January.

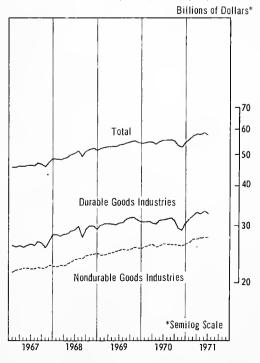
#### **NEW ORDERS**

New orders for durable goods at \$31.7 billion increased \$1.0 billion or 3.3 percent over June. Transportation equipment increased \$500 million to \$7.6 billion, with the rise about equally divided between the motor vehicles and parts and aerospace industries. Machinery (electrical and non-electrical) increased \$300 million to \$9.8 billion. Among the supplementary series, new orders for defense products increased \$500 million to \$2.2 billion.

The data for June and prior months in this report are based on a revision of the monthly M3 series on shipments and orders, therefore, the June figures are revised levels of those published previously. The monthly series has been benchmarked to the Annual Survey of Manufactures for the years 1966 to 1969 and new seasonal factors calculated. The revised figures for 1966 through May 1971, the new seasonal factors and other analytic materials have been published in a report entitled M3-1.3, Manufacturers' Shipments, Inventories, and Orders: 1966-1971.



Chart 2 - Manufacturers' Shipments (Seasonally Adjusted)



#### SHIPMENTS

Shipments of durable goods decreased \$800 million to \$31.9 billion at the end of July. The aerospace industries decreased \$700 million to \$1.9 billion following June's large increase and primary metals dropped by \$100 million. Motor vehicles and parts increased \$200 million to \$4.9 billion. Shipments of nondurable goods showed no appreciable change at a level of \$26.3 billion.

#### UNFILLED ORDERS

Unfilled orders for durable goods declined \$200 million to \$74.6 billion at the end of July as an \$800 million decrease in primary metals was partially offset by increases in machinery (\$300 million) and transportation equipment (\$200 million).

#### **INVENTORIES**

Inventories in both the durable and nondurable goods industries decreased \$100 million to \$64.7 billion and \$35.6 billion respectively. The drop in durables was entirely due to steel mill stocks' \$400 million decline which was largely offset by rises in other durable industries. At the all manufacturing level, materials and supplies increased \$200 million, work in process decreased \$100 million, and finished goods decreased \$200 million from June.

#### SCHEDULED RELEASE DATES

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The advance report is based on a tabulation of early reports and is limited to statistics on shipments, new orders, and unfilled orders for a few broad industry categories. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for August is scheduled for release on September 22, 1971 and the full report is scheduled for release on October I.

For an explanation of terms used in this report see appendix following table 5.

Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233.

Chart 3 — Manufacturers' Unfilled Orders (Seasonally Adjusted)

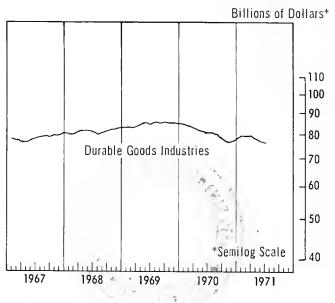
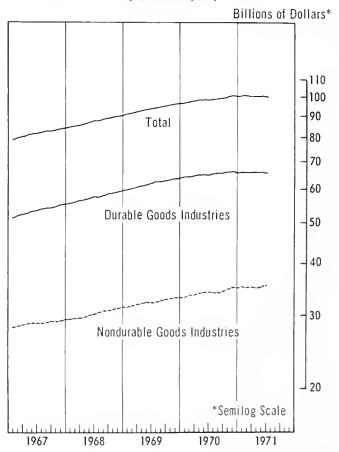


Chart 4 — Total Inventory (Seasonally Adjusted)



(Millions of dollars)

			Million	s of dol	iars)								
	Season	ally adj	usted		out seas justment		Season	ally adj	usted		out seas justment		
Industry group	July 1971	June 1971	May 1971	July 1971	June 1971	July 1970	July 1971 <sup>P</sup>	June 1971	May 1971	July 1971 <sup>p</sup>	June 1971	July 1970	
			Shipm	ents			Total inventories						
All manufacturing industries:	50 150	50,000	50 252	53,589	60.140	51 151	100,358	100 500	100 645	00.000	100 70.	00.000	
Total Total, excluding transportation	58,156 50,724	58,988 50,977	58,352 50,964	47,684	62,142 53,485	51,154 45,242	86,574	86,868	100,647 86,612	86,546	100,734 87,330	98,803 84,662	
Durable goods industries, total	31,857	32,650	31,850	28,593	34,949	27,203	64,743	64,825	65,079	64,536	65,046	64,501	
Stone, clay, and glass products	1,798	1,762	1,713	1,770	1,905	1,481	2,296	2,280	2,269	2,316	2,327	2,231	
Primary metals, total	5,294	5,404	5,501	4,907	5,810	4,345	8,860	9,170	9,236	8,764	9,072	8,781	
Blast furnaces, steel mills	2,952 2,342	2,750 2,654	2,641 2,860	2,787 2,120	3,000 2,810	2,105 2,240	4,464 4,396	4,815 4,355	4,985 4,251	4,375 4,389	4,709 4,363	4,677 4,104	
Fabricated metal products, total Metal cans, barrels, and drums	3,461 352	3,550 351	3,591 317	3,249 387	3,800 395	3,345 374	7,575 844	7,410 753	7,283 717	7,715 903	7,596 827	6,911 711	
Machinery, except electrical, total Engines and turbines Farm machinery and equipment Construction, mining, and material handling equipment	4,951 283 483 770	5,015 356 481 812	4,855 304 431 802	4,498 233 406 740	5,383 398 505	4,347 243 306 760	13,823 943 1,136 2,697	942 1,137 2,689	13,837 938 1,122 2,636	13,771 938 1,109 2,664	13,891 919 1,133 2,694	13,793 910 1,144 2,544	
Metalworking machineryGeneral industrial machinery	376 396	377 417	343 396	330 378	388 451	295 402	1,194 1,167	1,192 1,175	1,199 1,170	1,192 1,169		1,253 1,168	
Electrical machinery, total  Electrical transmission and distribution equipment and industrial apparatus	4,469 921	4,476 891	4,501 878	4,077 841	4,759 967	3,919 795	9,893 2,201	9,973 2,220	9,930	9,955 2,218	10,181 2,236	10,261 2,096	
Household appliances, including radio and TV	926	985	1,028	886	,	857	1,959	1,937	1,897	1,989	2,017	1,980	
Communication equipment	1,213 7,432	1,310 8,011	1,306 7,388	1,115 5,905	1,358	1,074	2,932	2,960	2,981	2,920	3,008	3,227	
Transportation equipment, total  Motor vehicles and parts  Aircraft, missiles, and parts	4,856 1,925	4,647 2,642	4,576 2,141	3,551 1,752	5,298	5,912 3,108 2,079	13,784 4,229 7,418	4,289	14,035 4,193 7,860	13,450 3,886 7,428	13,404 4,019 7,359	14,141 3,626 8,665	
Instruments and related products	1,043 3,409	982 3,450	1,007 3,294	946 3,241	1,034 3,601	936 2,918	2,331 6,181	2,358 6,112	2,379 6,110	2,368 6,197	2,408 6,167	2,467 5,916	
Nondurable goods industries, total	26,299	26,338	26,502	24,996	27,193	23,951	35,615	35,711	35,568	35,460	35,688	34,302	
Food and kindred products, total Meat products	8,697 1,912	8,699 1,899	8,795 1,920	8,422 1,908	8,961 1,943	7,930 1,995	8,841 850	8,966 854	8,894 833	8,600 817	8,631 837	8,158 802	
Tobacco products Textile mill products	491 (²)	495 (²)	471 (²)	506 (²)	533 (²)	474 (²)	2,139 (²)	2,180	2,190	1,996 (²)	2,103	2,018	
Paper and allied products, total Puip, paper, etc	2,215 909	2,219 934	2,171 895	2,071 858	2,300 960	1,980 839	2,761 1,034	2,731 1,019	2,738 1,022	2,801 1,043	2,779 1,029	2,752 1,011	
Chemicals and allied products, total Industrial chemicals, except pigments	4,376 1,474	4,363 1,421	4,315 1,377	4,104 1,378	4,549 1,488	3,812 1,246	6,804 1,899	6,808 1,905	6,799 1,885	6,799 1,880	6,791 1,876	6,494 1,908	
Petroleum and coal products	2,360 1,648 6,512	2,287 1,582 6,693	2,295 1,604 6,851	2,342 1,512 6,039	2,382 1,690 6,778	2,181 1,424 6 150	2,402 2,158 10,510	2,402 2,131 10,493	2,375 2,131 10,441	2,404 2,125 10,735	2,372 2,128 10,884	2,296 2,085 10,499	
			New o	rders									
All manufacturing industries: Total Total, excluding transportation	57,977 50,380	57,009 49,944	57,028 50,070	53,914 47,382	60,001 52,196	51,508 45,021	77,592 53,130		79,749 54,505	77,613 53,092	77,294 53,400	83,105 55,511	
Durable goods industries, total	31,676	30,666	30,601	28,917	32,805	27,573	74,566	74,748	76,727	74,533	74,211	80,230	
Primary metals, total	4,500 2,130	4,536 1,945	4,800 2,079	3,990 1,828	4,619 1,932	4,109 1,978	5,255 2,412	6,049 3,235	6,917 4,040	5,066 2,263	5,982 3,222	6,759 3,389	
Fabricated metal products	3,512	3,462	3,532	3,185		3,200	10,958		10,995	10,901	10,966	10,714	
Machinery, except electrical, total Engines and turbines	4,887 231	5,122 375	4,809 398	4,486 221		4,220 310	14,322 4,915	14,385	14,277 4,948	14,310 4,886	14,324	14,932 4,672	
Construction, mining, and material handling equipment	827 381 373	893 388 402	767 322 416	750 351 363	943 395 439	730 251 373	2,405 1,056 1,237	1,052	2,267 1,041 1,275	2,412 1,073 1,233	1,052	2,531 1,366 1,174	
Electrical machinery, total Electrical transmission and distribution	4,879	4,333	4,409	4,654	4,693	4,171	14,335	13,925	14,069	14,397	13,820	14,891	
equipment and industrial apparatus Household appliances, including radio	1,035 915	844	947	914 910	941	713	3,927 606	3,814	3,861	3,966 679	,	4,029	
and TV	1,442	908 1,264	1,050 1,223	1,483	1,314	822 1,440	5,961	616 5,732	694 5,778	5,853	655 5,486	740 5,843	
Transportation equipment, total Aircraft, missiles, and parts	7,597 2,243	7,065 1,968	6,958 1,623	6,532 2,420	7,805 1,882	6,487 2,563	24,462 17,687		25,244 18,044	24,521 17,782	23,894 17,113	27,594 21,340	
All other durable goods industries	6,301	6,148	6,093	6,070	6,565	5,386	5,234	5,183	5,225	5,338	5,225	5,340	
Nondurable goods industries, total  Industries with unfilled orders	26,301 6,942	26,343 7,082	26,427 6,973	24,997 6,356	27,196 7,266	23,935 6,160	3,026 3,026	3,027 3,027	3,022 3,022	3,080 3,080	3,083 3,083	2,675 2,875	
Industries without unfilled orders	19,359		19,454	18,641		17,775	-,020	-	-	5,000	-	-,013	

<sup>-</sup> Represents zero. Preliminary. Revised.

Adjusted for trading-day and calendar-month variations.

28eginning with July 1971, the shipments level for this series appears to be high compared with information shown in other textile series. All data for this industry group are, therefore, withheld pending investigation and revision.

Table 2.--VALUE OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS, FOR MARKET CATEGORIES AND SUPPLEMENTARY SERIES
(Millions of dollars)

Industry group	Season	ally adj	usted	Without seasonal adjustment <sup>1</sup>			Season	ally adj	usted	Without seasonal adjustment				
Industry group	July 1971 <sup>p</sup>	June 1971	May 1971	July 1971 <sup>p</sup>	June 1971	July 1970	July 1971 <sup>p</sup>	June 1971	May 1971	July 1971 <sup>p</sup>	June 1971	July 1970		
	Shipments							Total inventories						
All manufacturing industries, total	58,156	58,988	58,352	53,589	62,142	51,154	100,358	100,536	100,647	99,996	100,734	98,803		
Durable goods industries, total Nondurable goods industries, total	31,857 26,299	32,650 26,338	31,850 26,502	28,593 24,996	34,949 27,193	27,203 23,951		64,825 35,711	65,790 35,568	64,536 35,460	65,046 35,688	64,501 34,302		
Industry groups arranged by market categories: Home goods and apparel	5,254 11,219	5,437 11,286	5,583 11,274	4,902 10,818	5,573 11,545	4,918 10,213	13,678	10,628 13,774	10,561 13,723	10,888 13,377	11,095 13,444	10,500 12,805		
automotive equipment	8,370 5,435 5,252	9,134 5,226 5,171	8,555 5,136 5,116	7,675 4,103 5,172	9,581 5,933 5,637	7,713 3,786 4,449	25,473 5,384 8,074	25,371 5,428 8,025	25,808 5,322 7,973	25,437 5,008 8,135	25,506 5,144 8,133	26,431 4,755 7,722		
Other materials and supplies and intermediate products	22,626	22,734	22,688	20,919	23,873	20,075	37,097	37,310	37,260	37,151	37,412	36,590		
Supplementary series:  Household durable goods industries Producers' capital goods industries Defense products industries (old series). Defense products (new series)*	2,271 6,354 3,543 2,015	2,407 6,396 4,338 2,589	2,396 6,203 3,820 2,006	2,042 5,786 3,260 1,839	2,509 6,851 4,392 2,594	1,938 5,591 3,557 1,878		4,895 17,507 11,273 5,507	4,850 17,440 11,805 6,067	5,005 17,549 11,289 5,508	5,029 17,602 11,345 5,533	4,870 17,114 12,886 7,148		
			New o	rders			Unfilled orders							
All manufacturing industries, total	57,977	57,009	57,028	53,914	60,001	51,508	77,592	77,775	79,749	77,613	77,294	83,105		
Durable goods industries, total Nondurable goods industries, total	31,676 26,301	30,666 26,343	30,601 26,427	28,917 24,997	32,805 27,196	27,573 23,935		74,748 3,027	76,727 3,022	74,533 3,080	74,211 3,083	80,230 2,875		
Industry groups arranged by market categories: Home goods and apparel	5,316 11,225	5,365 11,266	5,682 11,273	5,054 10,821	5,582 11,531	4,934 10,203	2,113	2,048	2,140	2,230	2,076	2,06		
Equipment and defense products, except automotive Automotive equipment Construction materials, supplies, and	8,796 5,472	8,298 5,184	8,037 5,234	8,494 4,176	8,976 5,865	8,394 3,810	12,987	42,525	43,401	42,911	42,019	44,983		
intermediate products	5,416 21,752	5,077 21,819	5,066	5,223	5,567 22,480	4,241 19,926	1	10,430 22,772	10,522	10,609	10,559	25,85		
Supplementary series:  Household durable goods industries Producers' capital goods industries Defense products industries (old series). Defense products (new series)*	2,337 6,244 4,098 2,187	2,338 6,237 3,628 1,678	2,483 6,193 3,233 1,573	2,201 5,761 4,268 2,377	2,523 6,830 3,644 1,655	1,969 5,432 4,374 3,045	22,917	1,672 23,028 23,787 18,211	1,740 23,186 24,497 19,122	1,850 22,986 24,306 18,394	1,691 23,012 23,298 17,856	1,71- 23,142 27,878 19,906		

"Ouring 1968 manufacturers in ordnance, communications, aircraft and aircraft parts, and ship building industries began to provide aggregate figures on shipments, orders, and total inventories of work performed for the Department of Defense. The results of these reports are included in these new defense series. Since there are no historical data available to develop separate seasonal factors for these reporters, the data have been seasonally adjusted using the factors of these industries. Preliminary. Revised. Shipments and new orders adjusted for trading-day and calendar-month variations; unfilled orders and inventories as of end of month. The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Producers' capital goods (formerly machinery and equipment) industries - Machinery, except electrical (excluding farm machinery and equipment and machine shops, electrical machinery (excluding household appliances, communication equipment and electronic components), shipbuilding and repairing, and railroad and street car equipment.

Defense products industries (old series) - 8ased on reports for companies classified in the communication equipment, complete aircraft, aircraft parts, and ordnance industries. (Thus, this series includes significant amounts of nondefense work in these industries and omits defense work performed in the ship building industry.)

Defense products (new series) - 8ased on separate reports on detense work filed by large defense contractors in the following industries: ordnance. communications, complete aircraft, aircraft parts, and ship building. Thus, it differs from the old series in that it includes oefense activity in ship building and excludes nondefense work in ordnance, communications, complete aircraft, and aircraft parts. The data are comparable to those published annually in the MA-175, Shipments of Defense-Oriented Industries, for the specified industries.

Table 3.--MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERCENT CHANGES (Sased on seasonally adjusted data)

	Month-	to-month	1971	Aver	Average,	1965_1970			
-									
	June. July	May- June	April- May	April- July 1971	Jan April 1971	Oct. 1970- Jan. 19 <b>7</b> 1	July 1970- July 1971	Average rise	Average decline
Shipments:									
All manufacturing industries	-1.4	+1.1	+1.2	+0.3	+1.2	+1.5	+0.4	÷1,1	_1.2
Durable goods industries, total Nondurable goods industries, total	-2.4 -0.1	+2.5 -0.6	+1,7 +0,5	+0.6 -0.1	+1.3 +1.1	+2.4 +0.6	+0.5 +0.4	+1.8 +1.0	-1.8 -0.6
Total inventories: All manufacturing industries	-0.2	_0.1	+0,2	0.0	-0.2	+0.2	+0.1	+0.7	-0.3
New orders: All manufacturing industries Durable goods industries, total Nondurable goods industries, total	+1.7 +3.3 -0.2	0.0 +0.2 -0.3	+0.8 +1.2 +0.2	+0.8 +1.6 -0.3	-0.4 -1.5 +1.0	+3.3 +5.8 +0.5	+0.4 +0.5 +0.3	+1.9 +3.2 +1.0	-1.4 -2.3 -0.6
Unfilled orders: Durable goods industries, total	-0.2	-2.6	-1.6	-1.5	-0.4	+1.0	-0.6	+1.1	-0.7

Table 4.--VALUE OF MANUFACTURERS' INVENTORIES, 8Y STAGE OF FASRICATION, 8Y INDUSTRY GROUP (Millions of dollars)

Industry group	Seasonally adjusted			Without seasonal adjustment			Seasonally adjusted			Witbout seasonal adjustment			
industry group	July 1971 <sup>p</sup>	June 1971 <sup>r</sup>	May 1971	July 1971 <sup>p</sup>	June 1971	July 1970	July 1971 <sup>p</sup>	June 19 <b>7</b> 1	May 1971	July 1971 <sup>p</sup>	June 1971	July 1970	
	Tota1						Materials and supplies						
All manufacturing industries, total	100,358	100,536	100,647	99,996	100,734	98,803	32,925	32,754	32,488	32,746	32,483	31,00	
Ourable goods industries, total	64,743	64,825	65,079	64,536	65,046	64,501	20,008	19,696	19,570	19,968	19,603	18,60	
Stone, clay, and glass products Primary metals. Machinery (electrical and nonelectrical). Transportation equipment All other durable goods industries	2,296 8,860 23,716 13,784 16,087	9,170 23,827	2,269 9,236 23,767 14,035 15,772	2,316 8,764 23,726 13,450 16,280	2,327 9,072 24,072 13,404 16,171	2,231 8,781 24,054 14,141 15,294	756 3,434 6,524 3,167 6,127	757 3,420 6,490 3,151 5,878	758 3,330 6,495 3,285 5,702	759 3,415 6,617 2,922 6,255	757 3,342 6,536 3,037 5,931	71 3,18 6,38 2,89 5,42	
Nondurable goods industries, total	35,615	35,711	35,568	35,460	35,688	34,302	12,917	13,058	12,918	12,778	12,880	12,40	
Chemicals and allied products	6,804 2,402 2,158 24,251	6,808 2,402 2,131 24,370	6,799 2,375 2,131 24,263	6,799 2,404 2,125 24,132	6,791 2,372 2,128 24,397	6,494 2,296 2,085 23,427	2,367 573 615 9,362	2,386 559 648 9,465	2,374 541 698 9,305	2,378 573 631 9,196	2,372 564 656 9,288	2,26: 54: 71: 8,87:	
			Work in	process			Finished goods						
All manufacturing industries, total	33,341	33,472	33,702	33,318	33,433	34,844	34,092	34,310	34,457	33,932	34,818	32,95	
Durable goods industries, total	28,183	28,329	28,547	28,104	28,242	29,626	16,552	16,800	16,962	16,464	17,201	16,27	
Stone, clay, and glass products	306 2,975 10,651 9,226 5,025	10,758	303 3,126 10,678 9,333 5,107	307 2,943 10,585 9,181 5,088	308 3,034 10,750 8,974 5,176	306 3,056 11,226 9,784 5,254	1,234 2,451 6,541 1,391 4,935	1,222 2,682 6,579 1,405 4,912	1,208 2,780 6,594 1,417 4,963	1,250 2,406 6,524 1,347 4,937	1,262 2,696 6,786 1,393 5,064	1,210 2,543 6,439 1,468 4,613	
Nondurable goods industries, total	5,158	5,143	5,155	5,214	5,191	5,218	17,540	17,510	17,495	17,468	17,617	16,67	
Chemicals and allied products	915 453 331 3,459	460 341	926 456 330 3,443	912 462 327 3,513	913 470 337 3,471	851 441 336 3,590	3,522 1,376 1,212 11,430	3,499 1,383 1,142 11,486	3,499 1,378 1,103 11,515	3,509 1,369 1,167 11,423	3,506 1,338 1,135 11,638	3,37: 1,310 1,03: 10,95:	

preliminary. Revised.

Chart 5 - Ratio of Manufacturers' Inventories to Shipments and Unfilled Orders to Shipments, Durable Goods Industries (Seasonally Adjusted)

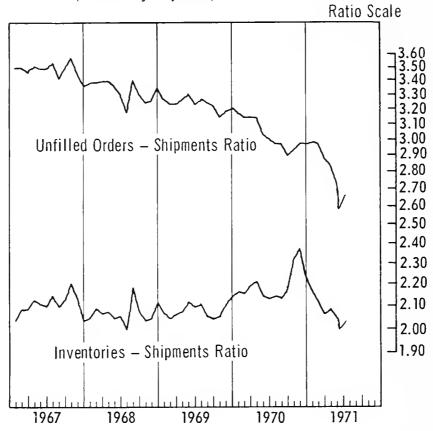


Table 5 .-- RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP Based on seasonally adjusted data)

To be a second	Inven	tories - s	hipments r	atio	Unfilled orders - shipments ratio <sup>1</sup> montbs, backlog)					
Industry group	July 1971 <sup>p</sup>	June 1971	May 1971	July 1970	July 1971 <sup>p</sup>	June 1971	May 1971	July 1970		
All manufacturing industries, total	1,73	1.70	1.72	1.79	2.22	2.16	2.26	2.46		
Durable goods industries, total	2.03	1.99	2,04	2,14	2.66	2.58	2.72	2.97		
Stone, clay, and glass products.  Primary metals.  Fabricated metals  Machinery, except electrical  Electrical machinery  Transportation equipment  Instruments and related products.	1.28 1.67 2.19 2.79 2.21 1.85	1,29 1,70 2,09 2,76 2,23 1,71 2,40	1.32 1.68 2.03 2.85 2.21 1.90 2.36	1.47 1.86 1.90 2.90 2.37 2.02 2.35	(NA) 0.99 3.52 2.89 3.21 5.83 (NA)	(NA) 1,12 3,41 2,87 3,11 4,99 (NA)	(NA) 1,26 3,36 2,94 3,13 5,92 (NA)	( NA 1,47 3,32 3,13 3,45 6,09 ( NA		
Nondurable goods industries, total.  Food and kindred products.  Tobacco products.  Textile mill products.  Paper and allied products.  Chemicals and allied products.  Ribber and plastics products, n.e.c.	1.35 1.02 1.36 2 1.25 1.55 1.02	1.36 1.03 4.40 2 1.23 1.56 1.05	1,34 1,01 4,65 2 1,26 1,58 1,03 1,33	1.37 1.03 4.70 2 1.28 1.59 1.04 1.36	0.41 (X) (XA) (XA) (XA) (X) (X)	0,43 (X (X') (NA (NA (X') (X	0.43 (X (X (NA (NA (X (X	0,42 (X (X (NA (NA (X (X (X		

NA Not available. Preliminary. Revised. X) Not applicable.

1 Excludes the following industries with no unfilled order: Wooden containers; glass containers; metal cans, barrels and drums; motor vehicle assembly operations; foods and related products; tobacco; apparel and related products; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

Beginning with July 1971, the shipments level for this series appears to be high compared with information shown in other textile series. All data for this industry group are, therefore, withheld pending investigation and revision.

### **Appendix**

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

#### DESCRIPTION OF THE SURVEY

The Manufacturers' Shipments, Inventories, and Orders survey provides monthly figures that are comparable to the annual totals published each year in the annual survey of manufactures (ASM). The ASM is based on a sample of approximately 60,000 manufacturing establishments drawn from the 5-year census universe of about 310,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. The establishments do not provide information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification System (SIC) and area data for industry groups.

The monthly survey M3-1 does not provide information at the complete SIC industry detail because of the smaller size of the reporting panel and the fact that most companies cannot provide shipments, inventories, and orders data monthly for individual establishments.

The monthly reporting panel consists of approximately 5,000 reporting units and includes virtually all companies with 1,000 or more employees and a sample of the smaller ones. The reporting unit typically comprises the entire operations of a company although many of the larger diversified companies file separate divisional type reports for their operations in different industries.

Most of the reporting units include mixed industry activity even within the broad industry categories of the monthly survey. The survey methodology assumes that the month-to-month changes of the reporting units classified in each industry category represent effectively the month-to-month movements of the establishments in the SIC industries which make up the category. Thus, the monthly reports are used to update the ASM estimates by using a link relative of matched companies in each industry.

#### **EXPLANATION OF TERMS**

Value of Shipments--Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for others, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the aircraft industry and shipbuilding, the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed aircraft or ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for the all manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from one division of the company to another as if they were net sales to outside customers. Although this



definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders Received and Unfilled Orders--Orders as reported in the monthly survey are net of cancellations during the month. They include orders received during the period and also filled during the period as well as those orders received for future delivery. They also include the net sales value of contract change documents which increase or decrease the sales value of the unfilled orders to which they relate. Orders include only those supported by binding legal documents such as signed contracts, or letter contracts. In case of letter contracts the full amount of the sales value is included if the parties are in substantial agreement on the amount; otherwise, only the funds specifically authorized to be expended are included. The respondent is instructed to deduct the sales value of paritial or complete cancellation of existing orders.

Unfilled orders include orders as defined above that have not yet passed through the sales account. Generally, unfilled orders at the end of the reporting period are equal to unfilled orders at the beginning of the period plus net new orders received less net sales.

While both new orders and unfilled orders are used in reviewing individual company reports for consistency, only unfilled orders are estimated directly in the tabulated totals. New orders are derived from the shipments plus net change in unfilled orders for each industry category. This procedure is followed for seasonally adjusted data as well as for the unadjusted data. Shipments and unfilled orders are seasonally adjusted independently. Seasonally adjusted new orders are derived from seasonally adjusted shipments and seasonally adjusted unfilled orders.